# ASCENDUM PROBLEM SUMMARY

## Area [SIBLIERLO] Machine Id VOLVO EC330CL 110117 Component

Diesel Engine Fluid VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)



## COMPONENT CONDITION SUMMARY





## RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Sample Status				ABNORMAL	ABNORMAL	NORMAL
Fuel	%	ASTM D3524	>6.0	<b>6</b> 5.9	<b>5</b> .2	<1.0
Visc @ 100°C	cSt	ASTM D445	15.0	<u> </u>	<b>1</b> 1.66	12.38

Customer Id: VOLVO1672 Sample No.: ASC0003221 Lab Number: 05969472 Test Package: CONST



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Check Fuel/injector System			?	We advise that you check the fuel injection system.			

## **HISTORICAL DIAGNOSIS**



28 Mar 2018 Diag: Jonathan Hester

We advise that you check the fuel injection system. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity.



19 Jan 2015 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.



## 09 Jan 2014 Diag: Elizabeth Valachovic



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.





Report Id: VOLVO1672 [WUSCAR] 05969472 (Generated: 10/19/2023 15:11:31) Rev: 1

# ASCENDUM

# **OIL ANALYSIS REPORT**

Sample Rating Trend FUEL



## Area [SIBLIERLO] **VOLVO EC330CL 110117** Component

**Diesel Engine** Fluid

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		ASC0003221	VCP231418	VCP170624
We advise that you check the fuel injection system.	Sample Date		Client Info		03 Oct 2023	28 Mar 2018	19 Jan 2015
Dil and filter change at the time of sampling has	Machine Age	hrs	Client Info		12778	9133	5324
been noted. Resample at the next service interval	Oil Age	hrs	Client Info		5324	0	250
o monitor.	Oil Changed		Client Info		Changed	N/A	Changed
<b>Vear</b> All component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Contamination	CONTAMINATIO	N	method	limit/base	current	history1	history2
here is a moderate amount of fuel present in the I.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR METALS		method	limit/base	current	history1	history2
uel is present in the oil and is lowering the	Iron	ppm	ASTM D5185m	>100	16	5	10
scosity. The BN result indicates that there is	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
itable alkalinity remaining in the oil.	Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	2	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	3	2	2
	Lead	ppm	ASTM D5185m	>20	8	<1	<1
	Copper	ppm	ASTM D5185m	>15	3	2	2
	Tin	ppm	ASTM D5185m	>10	2	0	<1
	Antimony	ppm	ASTM D5185m			<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2.5	60	45	96
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	20	36	51
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	258	536	777
	Calcium	ppm	ASTM D5185m	2057	1880	1554	1328
	Phosphorus	ppm	ASTM D5185m	935	899	733	895
	Zinc	ppm	ASTM D5185m	1223	1104	860	1060
	Sulfur	ppm	ASTM D5185m	4079	3066	2312	2112
	CONTAMINANTS	5	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	4	4	2
	Sodium	ppm	ASTM D5185m		3	3	5
	Potassium	ppm	ASTM D5185m	>20	4	13	1
	Fuel	%	ASTM D3524	>6.0	<u> </u>	▲ 5.2	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.	6.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.	17.
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history
	Ovidation	Ale e / due ne		. 05	10 5	10	10

Base Number (BN) mg KOH/g ASTM D2896 10

6.9

# ASCENDUM

# **OIL ANALYSIS REPORT**



Submitted By: BRAD KEEVER

Page 4 of 4

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Mar28/18